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IN THE CLAIMS

Please and amend claims 1 and 2 as follows:

1. (Amended) A fluid pump comprising:

a housing;

a shaft rotatably supported by said housing;

a cylinder bore formed within said housing;

a piston accommodated in said cylinder bore, said piston reciprocating in said cylinder bore;

A, an orbiting member integrally rotating with said shaft, said orbiting member including a slant plane slanting with respect to the shaft;

a swing member connected to said orbiting member through a thrust bearing, said swing member swinging with a rotation of said rotating member to reciprocate said piston; and

a swing support mechanism supporting said swing member such that said swing member swings, wherein said swing support mechanism includes:

a first rotating member capable of rotating around a first axis perpendicular to a center line of said shaft;

a constraining member connected to said first rotating member and restraining said first rotating member from rotating around the center line, said constraining member being supported on said housing in a movable manner along the center line; and

a second rotating member connected to said first rotating member through a pin disposed on a second axis perpendicular to the center line and crossing the first axis such that

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said second rotating member rotates around the second axis, said pin being engaged with a hole defined ^{on} said first rotating member along the second axis and with a hole defined ^{on} said second rotating member along the second axis, wherein said swing member is connected to said second rotating member.

wherein said pin prevents movement of said 2nd rotating member relative to said 1st rotating member along said center line, &

2. (Amended) A fluid pump according to claim 1, wherein

said first and second rotating members are substantially formed in a ring,

said first rotating member is connected to said constraining member through a cylindrically formed first pin, and

said pin connecting said second rotating member to said first rotating member is provided as a cylindrically formed second pin.

Please add the following new claims:

9. (New) A fluid pump according to claim 1, further comprising a discharge capacity detecting mechanism for detecting a discharge capacity based on an amount of displacement of said constraining member.

10. (New) A fluid pump according to claim 1, wherein said first rotating member is connected to said constraining member through another pin that is engaged with a hole formed on said first rotating member in said first axis and if further engaged with a hole formed on said constraining member in said first axis.

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11. (New) A fluid pump according to claim 1, further comprising a displacement sensor for detecting an amount of movement of said constraining member, wherein said constraining member is freely movable along the center line to enable said swing member to swing in accordance with pressure in a chamber defined between said cylinder bore and said piston.

12. (New) A fluid pump comprising:

a housing;

a shaft rotatably supported by said housing, said shaft extending in a center line and having an arm in said housing;

a cylinder bore formed within said housing;

a piston accommodated in said cylinder bore, said piston reciprocating in said cylinder bore;

a swing member disposed in said housing and driven by said shaft in swing motion to reciprocate said piston; and

a support mechanism for supporting said swing member such that said swing member swings with a variable swing angle, wherein said support mechanism includes:

a constraining member supported on said housing in a movable manner along the center line and in an immovable manner around the center line, said constraining member defining a through hole in a first axis perpendicular to the center line;

a first ring member disposed around said constraining member, said first ring member defining a pair of first through holes on the first axis and a pair of second through holes on a second axis that is perpendicular to both of the center line and the first axis and crosses with both of the center line and the first axis;

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a first pin disposed on the first axis, said first pin passing through said through hole defined on said constraining member and said pair of first through holes so as to support said first ring member on said constraining member in a rocking manner;

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a second ring member firmly connected to said swing member and disposed around said first ring member, said second ring member defining a pair of third through holes on the second axis; and

a pair of second pins disposed on the second axis, each of said second pins passing through said second through hole defined on said first ring member and said third through hole defined on said second ring member so as to support said second ring member on said first ring member in a rocking manner.
